PATENT ABSTRACTS OF JAPAN

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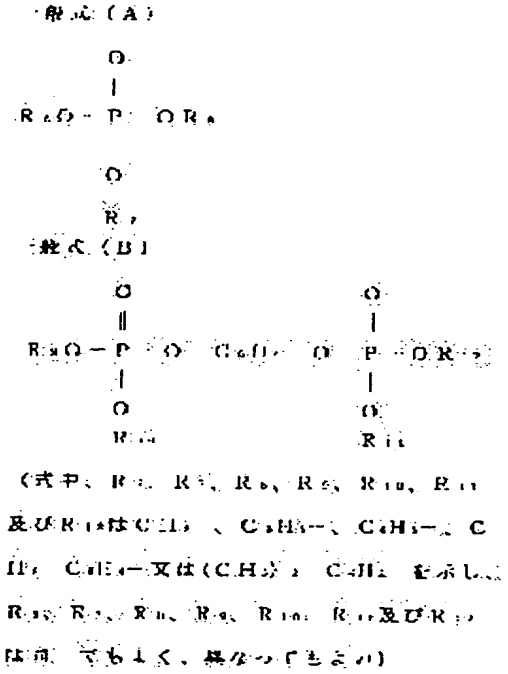
(71)Applicant : DENKI KAGAKU KOGYO KK
(72)Inventor : MIHARA HIDEHIRO
SAKURAI TETSUYA
TAGUCHI KOICHI

(54) FLAME-RETARDED RESIN COMPOSITION, FLAME-RETARDED ADHESIVE COMPOSITION AND METALLIC JOINED PRODUCT

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a flame-retarded resin composition hardly providing bad effects to a human body or the environment, and excellent in flame retardancy and adhesion, and further to provide a flame-retarded adhesive composition.
SOLUTION: This flame-retarded resin composition comprises (1) a polymerizable vinyl monomer, (2) a polymerization initiator, (3) a reducing agent, (4) a phosphoric ester and (5) a metal hydroxide. The composition can further contain (6) an elastomer component, and the flame-retarded resin composition can be the flame-retarded adhesive composition. Compounds represented by general formulas (A) and/or (B) wherein, R6 to R12 are each CH3-, C2H6, C6H5-, CH3-C6H4- or (CH3)2-C6H3- and the R6 to R12 may be the same as or different from one an other) are preferable as the phosphoric ester.



LEGAL STATUS

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[Date of registration]

[Number of appeal against examiner's decision of rejection]

JAPANESE [JP,2001-261723,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION TECHNICAL PROBLEM MEANS EXAMPLE

[Translation done.]

* NOTICES *

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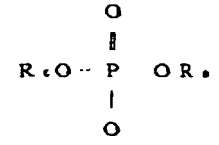
1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] (1) The flame-retardant-resin constituent which comes to contain a polymerization nature vinyl monomer, (2) polymerization initiators, (3) reducing agents, (4) phosphoric ester, and (5) metal hydroxide.
[Claim 2] Furthermore, the flame-retardant-resin constituent according to claim 1 which comes to contain (6) elastomer component.
[Claim 3] (1) The flame-retardant-resin constituent according to claim 1 or 2 whose polymerization nature vinyl monomer is a polymerization nature (meta) acrylic-acid derivative.
[Claim 4] (4) A flame-retardant-resin constituent given [of the claims 1-3 phosphoric ester is indicated to be by the general formula (A) and/or the general formula (B)] in one term.
[Formula 1]
一般式（Ａ）

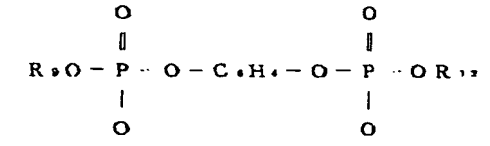


Drawing selection

[Representative drawing]

一般式（Ａ）

一般式（Ｂ）



（式中、Ｒ５、Ｒ７、Ｒ８、Ｒ９、Ｒ１０、Ｒ１１及びＲ１２はＣＨ３－、Ｃ２Ｈ５－、Ｃ６Ｈ５－、ＣＨ３－Ｃ６Ｈ４－又は（ＣＨ３）２・Ｃ６Ｈ３－を示し、Ｒ５、Ｒ７、Ｒ８、Ｒ９、Ｒ１０、Ｒ１１及びＲ１２は同一でもよく、異なってもよい）

[Translation done.]

JAPANESE [JP,2001-261723,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION TECHNICAL PROBLEM MEANS EXAMPLE

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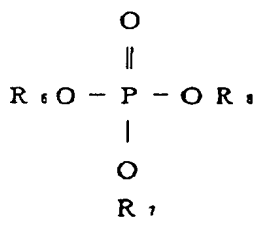
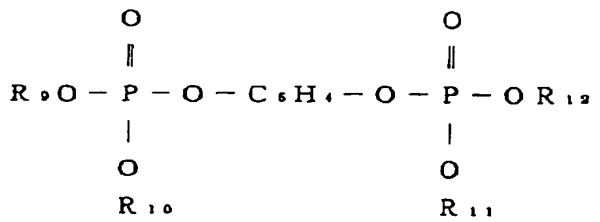
[Formula 1]
一般式（A）



一般式（B）



(By R6, R7, R8, R9, R10, R11, and R12 showing CH3-, C2H5-, C6H5-, CH3-C6H4-, or (CH3) 2-C6H3- among a formula, an identity is sufficient as R6, R7, R8, R9, R10, R11, and R12, and they may differ)
[Claim 5] a flame-retardant-resin constituent given [of the claims 1-4] in one term -- the [a first agent and] -- the 2 pharmaceutical-form flame-retardant-resin constituent with which it divides into 2 agents, a first agent comes to contain a polymerization initiator at least, and the second agent comes to contain a reducing agent at least
[Claim 6] The fire-resistant adhesives constituent which consists of a flame-retardant-resin constituent given [of the claims 1-5] in one term.
[Claim 7] The hardening field of a flame-retardant-resin constituent given [of the claims 1-5] in one term.

[Claim 8] The metal zygote which it comes to join with a fire-resistant adhesives constituent given in claim 6 term.

[Translation done.]

本願に先行する関連出願特許データ(2/5)

特許出願 2000- 81946[H12. 3.23]　　請求( )　出願種別 (通常　　)
特開 2001-261723[H13. 9.26]
名称　難燃性樹脂組成物、難燃性接着剤組成物及び金属接合体
出願人 13-000329 電気化学工業　(株)
発明者 三原　英裕,桜井　哲也,田口　広一
ＩＰＣ C08F　2/44　C08F　2/44　C08F　2/44
　C08F291/02　　C09J　4/02　　C09J 11/02
代理人　(　　) 他( )
優先権　( ) [　　] (　　) [　　] (　　)
関連種別　(　　)　原出願番号 (　　)　原登録番号 (　　)
基準日　(出願日　) [平 12. 3.23]　遡及日[　　]　( )
審査異議有効数 ( )　請求項の数 (008)　権利譲渡／実施許諾 ( )
査定種別 (-)[　　]　最終処分 ( ) [　　]
審査種別 (通常審査)
審査記録　　(A63　　願書　　,平 12. 3.23,21000:)
(A967　認定情報,平 12. 3.27,　　:)

【整理番号】 Ａ０８８９３０
特願２０００－８１９４６（Ｈ１２．３．２３）、
特開２００１－２６１７２３（Ｈ１３．９．２６）

【書類名】　　明細書
【発明の名称】 難燃性樹脂組成物、難燃性接着剤組成物及び金属接合体
【特許請求の範囲】
【請求項１】 （１）重合性ビニルモノマー、（２）重合開始剤、（３）還元剤及び（４）リン酸エステル及び（５）金属水酸化物を含有してなる難燃性樹脂組成物。
【請求項２】 さらに、（６）エラストマー成分を含有してなる請求項１記載の難燃性樹脂組成物。
【請求項３】 （１）重合性ビニルモノマーが重合性（メタ）アクリル酸誘導体である請求項１又は２記載の難燃性樹脂組成物。
【請求項４】 （４）リン酸エステルが一般式（Ａ）及び／又は一般式（Ｂ）で示される請求項１～３のうちの１項記載の難燃性樹脂組成物。
【化１】
[Image]
（式中、Ｒ６、Ｒ７、Ｒ８、Ｒ９、Ｒ１０、Ｒ１１及びＲ１２はＣＨ３－、Ｃ２Ｈ５－、Ｃ６Ｈ５－、ＣＨ３－Ｃ６Ｈ４－又は(ＣＨ３) ２－Ｃ６Ｈ３－を示し、Ｒ６、Ｒ７、Ｒ８、Ｒ９、Ｒ１０、Ｒ１１及びＲ１２は同一でもよく、異なってもよい）
【請求項５】 請求項１～４のうちの１項記載の難燃性樹脂組成物を第一剤及び第二剤に分け、第一剤が少なくとも重合開始剤を含有してなり、第二剤が少なくとも還元剤を含有してなる二剤型難燃性樹脂組成物。
【請求項６】 請求項１～５のうちの１項記載の難燃性樹脂組成物からなる難燃性接着剤組成物。
【請求項７】 請求項１～５のうちの１項記載の難燃性樹脂組成物の硬化体。
【請求項８】 請求項６項記載の難燃性接着剤組成物により接合してなる金属接合体。